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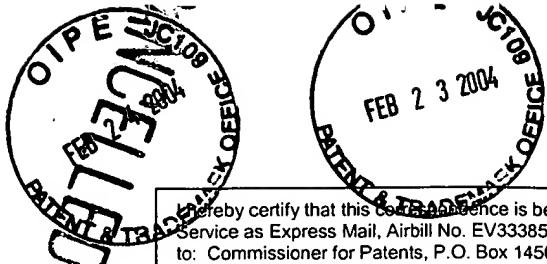
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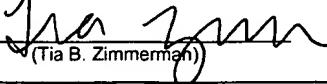
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Dated: February 23, 2004	Signature:  (Tia B. Zimmerman)

PATENT
Docket No. 282172000810
Client Ref. 405DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Derek J. HEI

Serial No.: 09/872,384

Filing Date: June 1, 2001

For: METHODS AND DEVICES FOR THE
REMOVAL OF PSORALENS FROM
BLOOD PRODUCTS

Examiner: A. Marschel

Group Art Unit: 1631

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

02/27/2004 JBALINAN 00000077 031952 09872384

01 FC:1254 1480.00 DA

This Supplemental Information Disclosure Statement is submitted:

- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - A fee is required. A check in the amount of is enclosed.
 - A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of is enclosed.
 - A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicant would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

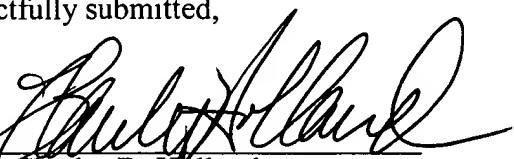
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any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 282172000810. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

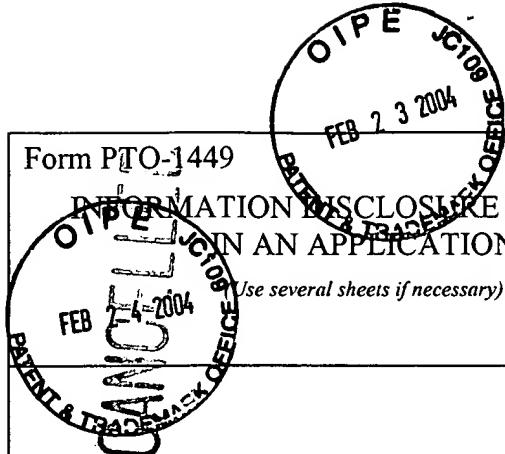
Dated: February 23, 2004

Respectfully submitted,

By:


Charles D. Holland
Registration No. 35,196

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 Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number 282172000810		Application Number 09/872,384
	Applicant Derek J. HEI		
	Filing Date: June 1, 2001		Group Art Unit 1631
	Mailing Date February 23, 2004		Examiner Name A. Marschel

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	12/19/2002	2002/0192632 A1	Hei et al.			
	2.	04/08/2003	6,544,727	Hei			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	3.	Office action mailed on May 20, 2003 in co-pending Application No. 10/051,976 filed on January 16, 2002.
	4.	Final Office action mailed on November 5, 2003 in co-pending Application No. 10/051,976 filed on January 16, 2002.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number: CERUS-408.11	Application Number: 10/051,976
	Applicant: Derek J. Hei	
	Filing Date: January 16, 2002	Group Art Unit: NYA

U.S. PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Patent No.	Name	Class	Subclass	Filing Date If Appropriate
<i>an</i>	1.	02/21/89	RE 32,874	Rock et al.			
<i>an</i>	2.	04/24/73	3,729,457	Davankov et al.			
<i>an</i>	3.	12/20/77	4,064,042	Kunin			
<i>an</i>	4.	11/07/78	4,124,598	Hearst et al.			
<i>an</i>	5.	06/12/79	4,157,723	Granzow et al.			
<i>an</i>	6.	07/03/79	4,160,059	Samejima			JUN 19 2002
<i>an</i>	7.	09/25/79	4,169,204	Hearst et al.			
<i>an</i>	8.	04/01/80	4,196,281	Hearst et al.			TECH CENTER 1600/2900
<i>an</i>	9.	05/13/80	4,202,775	Abe et al.			
<i>an</i>	10.	08/05/80	4,216,154	Kaufman			
<i>an</i>	11.	11/25/80	4,235,781	Kaufman			
<i>an</i>	12.	05/05/81	4,265,280	Ammann et al.			COPY OF PAPERS
<i>an</i>	13.	05/26/81	4,269,852	Kaufman			ORIGINALLY FILED
<i>an</i>	14.	10/13/81	4,294,822	Kaufman			—
<i>an</i>	15.	11/03/81	4,298,614	Kaufman			
<i>an</i>	16.	06/28/83	4,390,619	Harmening-Pittiglio			
<i>an</i>	17.	11/01/83	4,412,835	Spencer			
<i>an</i>	18.	05/08/84	4,447,415	Rock et al.			
<i>an</i>	19.	07/17/84	4,460,530	Hanson et al.			
<i>an</i>	20.	03/18/86	4,576,715	Michaels et al.			
<i>an</i>	21.	06/10/86	4,594,202	Pall et al.			
<i>an</i>	22.	07/28/87	4,683,195	Mullis et al.			
<i>an</i>	23.	07/28/87	4,683,202	Mullis			
<i>an</i>	24.	08/04/87	4,684,521	Edelson			
<i>an</i>	25.	09/15/87	4,693,981	Wiesehahn et al.			
<i>an</i>	26.	09/22/87	4,695,460	Holme			
<i>an</i>	27.	11/03/87	4,704,352	Miripol et al.			
<i>an</i>	28.	02/23/88	4,727,027	Wiesehahn et al.			
<i>an</i>	29.	03/01/88	4,728,432	Sugiyama et al.			
<i>an</i>	30.	05/31/88	4,748,120	Wiesehahn			

EXAMINER: <i>Derek J. Hei</i>	DATE CONSIDERED: <i>5/14/03</i>
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.	

PTO-149

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number: CERUS-408.11	Application Number: 10/051,976
(Use several sheets if necessary)	Applicant: Derek J. Hei	
	Filing Date: January 16, 2002	Group Art Unit: NYA

U.S. PATENT DOCUMENTS					
31.	05/09/89	4,828,976	Murphy		
32.	05/15/90	4,925,665	Murphy		
33.	06/19/90	4,935,141	Buck et al.		
34.	09/25/90	4,959,148	Clark III		
35.	01/15/91	4,985,153	Kuroda et al.		
36.	02/21/91	4,992,363	Murphy		
37.	07/09/91	5,030,352	Varady et al.		JUN 19 2002
38.	08/06/91	5,037,857	Maroldo et al.		
39.	03/10/92	5,094,960	Bonomo		
40.	03/31/92	5,100,564	Pall et al.		
41.	05/12/92	5,112,298	Prince et al.		
42.	07/07/92	5,128,048	Stewart et al.		
43.	08/11/92	5,137,926	Maroldo et al.		COPY OF PAPERS ORIGINALLY FILED
44.	09/15/92	5,147,290	Jonsson		
45.	03/02/93	5,190,657	Heagle et al.		
46.	08/10/93	5,234,608	Duff		
47.	12/14/93	5,269,917	Stankowski		
48.	01/18/94	5,279,742	Markell et al.		
49.	02/22/94	5,288,605	Lin et al.		
50.	07/12/94	5,328,758	Markell et al.		
51.	10/11/94	5,354,262	Boehringer et al.		
52.	03/21/95	5,399,719	Wollowitz et al.		
53.	04/18/95	5,407,581	Onodera et al.		
54.	05/23/95	5,418,130	Platz et al.		
55.	06/06/95	5,421,812	Langley et al.		
56.	10/10/95	5,456,845	Nishimura et al.		
57.	10/17/95	5,459,030	Lin et al.		
58.	11/21/95	5,468,536	Whitcomb et al.		
59.	01/09/96	5,482,828	Lin et al.		
60.	01/23/96	5,486,293	Boschetti et al.		
61.	01/23/96	5,486,410	Groeger		
62.	02/27/96	5,494,592	Latham, Jr. et al.		

EXAMINER: *John M. Vays*

DATE CONSIDERED:

5/14/03

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-146 10/05/97	Docket Number: CERUS-408.11	Application Number: 10/051,976
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		Applicant: Derek J. Hei
(Use several sheets if necessary)	Filing Date: January 16, 2002	Group Art Unit: NYA

U.S. PATENT DOCUMENTS						
63.	03/12/96	5,498,520	Chapman			
64.	03/26/96	5,501,795	Pall et al.			
65.	04/02/96	5,504,163	Tegen et al.			COPY OF PAPERS ORIGINALLY FILED
66.	07/02/96	5,531,902	Gallup			
67.	08/06/96	5,543,062	Nishimura			
68.	09/17/96	5,556,541	Ruschke			
69.	09/24/96	5,559,250	Cook et al.			
70.	11/05/96	5,571,666	Floyd et al.			
71.	01/14/97	5,593,823	Wollowitz et al.			
72.	02/22/94	5,605,746	Groeger			
73.	03/04/97	5,607,766	Berger			
74.	04/01/97	5,616,254	Pall et al.			
75.	06/17/97	5,639,376	Lee et al.			
76.	08/26/97	5,660,731	Piechocki et al.			
77.	09/02/97	5,662,728	Groeger			
78.	06/30/98	5,773,384	Davankov et al.			
79.	10/06/98	5,817,354	Mozaffar et al.			
80.	03/16/99	5,883,256	Schuler et al.			
81.	05/08/01	6,228,995	Lee			
82.	11/20/01	6,319,662	Foley et al.			

INTERNATIONAL PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
83.	10/11/91	03-229610	Japan				Partial
84.	12/14/89	3819000	Germany				Partial
85.	12/09/87	62-283198	Japan				Partial
86.	04/04/91	WO 91/03933	PCT				
87.	12/08/94	WO 94/27433	PCT				
88.	01/05/95	WO 95/00631	PCT				
89.	07/13/95	WO 95/18665	PCT				

EXAMINER: <i>DM</i>	DATE CONSIDERED: <i>5/16/03</i>
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.	

Form PTO-1449

Docket Number: CERUS-408.11

Application Number: 10/051,976

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

Applicant: Derek J. Hei

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Filing Date: January 16, 2002

Group Art Unit: NYA

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OTHER DOCUMENTS (including author, title, Date Pertinent Pages, etc.)

Examiner Initials	Ref.No.	Title
	90.	510(k) Notification submitted to the U.S. Food & Drug Administration, Asahi Medical Co., Ltd., Tokyo, Japan (12/5/88).
	91.	Adams, et al., "The Pechmann Reaction," Organic Reactions Vol. VII Chapter 1, Wiley, NY (1953).
	92.	Alter, et al., "Photochemical Decontamination of Blood Components Containing Hepatitis B and Non-A, Non-B Virus," The Lancet (ii:1446-1450) (1988).
	93.	Alter et al. "How frequent is posttransfusion hepatitis after the introduction of 3 rd generation donor screening for hepatitis B? What is probable nature?" Int'l. Forum: Vox Sang 32:346-363 (1977)
	94.	Andrade, J.D., et al., "Coated adsorbents for direct blood perfusion: Hema/activated carbon", Vol. XVII Trans. Amer. Soc. Artf. Int. Organs pp. 222-228 (1971).
	95.	Artuc et al. "Reversible binding of 5- and 8-methoxysoralen to human serum proteins (albumin) and to epidermis in vitro" Brit. J. Derm. 101:669-677 (1979)
	96.	Belogurov and Zavil'gel'skii "Mechanism of the inactivation of the photosensitizer 8-methoxysoralen on bacteria and bacteriophages" Sovgenet 14:219-223 (1978)
	97.	Bender, et al., "Psoralen Synthesis Improvements in Furan Ring Formation. Application to the Synthesis of 4,5',8-Trimethylpsoralen," J. Org. Chem. 44:2176-2180 (1979).
	98.	Bertolini, F. et al., "Platelet concentrates stored in synthetic medium after filtration," Vox Sang 67:82-86. (1992)
	99.	Bertolini, F., et al., "Platelet Quality After 15-day Storage of Platelet Concentrates Prepared from Buffy Coats and Stored in a Glucose-Free Crystalloid Medium," Transfusion 32:9-16 (1992).
	100.	Bock, M., et al., "White cell depletion of single-donor platelet preparations by a new adsorption filter," Transfusion 31:333-334 (1991).
	101.	Bogusz M. et al. "Isolation of drugs from blood and tissues with XAD-2 bags" Forensic Sci. Int'l. 12:73-82 (1978)
	102.	Boomgaard, M.N. et al., "In vitro evaluation of platelet concentrates, prepared from pooled buffy coats, stored for 8 days after filtration", Transfusion 34:311-316 (1994).
	103.	Bordin et al. "DNA repair and recovery in escherichia coli after psoralen and angelicin photosensitization" Biochimica et Biophysica Acta 447: 249-259 (1976)
	104.	Brettell T.A., and Saferstein, R., "Forensic science" Anal. Chem., 59:162-174 (1987).
	105.	Carmen R. "The selection of plastic materials for blood bags" Trnas. Med. Rev. 7:1 1-10 (1993)
	106.	Chandy, T., and Sharma, C.P., "Polylysine-immobililized chitosan beads as adsorbents for bilirubin," Artificial Organs 16:568-576 (1992).
	107.	Cimino et al., "Psoralens as Photoactive Probes of Nucleic Acid Structure and Function: Organic Chemistry, Photochemistry, and Biochemistry," Ann. Rev. Biochem. 54:1151-1193 (1985).
	108.	Coli et al. "Phosphate removal by resin hemoperfusion efficacy and biocompatibility of a new exchange" Biomat, Art Cells & Immob. Biotech. 20:1153-1163 (1992)
	109.	Courtney, J.M., et al., "Monitoring of the blood response in blood purification," Artificial Organs 17:260-266 (1993).
	110.	Davankov, V.A., and Tsyurupa, M.P., "Structure and properties of hypercrosslinked polystyrene-the first representative of a new class of polymer networks," Reactive Polymers 13 Elsevier Science Pub. B.V., Amsterdam pp. 27-42 (1990).

EXAMINER:

Derek J. Hei

DATE CONSIDERED:

5/14/02

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Form PTO-1449

Docket Number: CERUS-408.11

Application Number: 10/051,976

INFORMATION DISCLOSURE CITATION
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Applicant: Derek J. Hei

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Group Art Unit: NYA

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Examiner Initials	Ref.No.	Title	OTHER DOCUMENTS (including author, title, Date Pertinent Pages, etc.)
<i>DR</i>	111.	Dodd et al. (1991) "Inactivation of Viruses in Platelet Suspensions that Retain Their In Vitro Characteristics: Comparison of Psoralen-ultraviolet A and Merocyanine 540 Visible Light Methods," <i>Transfusion</i> 31:483-490	
<i>DR</i>	112.	Dunlop, E.H. and Williams, R., "Physico-chemical aspects of the removal of protein-bound substances by charcoal and other adsorbents of potential value in systems of artificial liver support: Part 2- Kinetics of removal," <i>Med. & Biol. Eng. & Comput.</i> , 16:350-362 (1978).	
<i>DR</i>	113.	Dunlop, E.H., and Williams, R., "Physico-chemical aspects of the removal of protein-bound substances by charcoal and other adsorbents of potential value in systems of artificial liver support: Part I - Equilibrium properties," <i>Med. & Biol. Eng. & Comput.</i> , 16:343-49(1978).	
<i>DR</i>	114.	Durst, T., "Dimethylsulfoxide (DMSO) in Organic Synthesis," <i>Adv. Org. Chem.</i> 6:352-353 (1969).	
<i>DR</i>	115.	Dvilansky et al. "Evaluation of a new polyacrolein microsphere (acrobead) protein A column: An in vitro study using the blood of patients with immune thrombocytopenia or malignancies" <i>Transfusion</i> 32:210-214 (1992)	
<i>DR</i>	116.	Faenza et al. "Hemoperfusion with a new anion exchange resin corrects the metabolic alkalosis in pyloric stenosis: An experimental demonstration" <i>Int'l. J. Art. Organs</i> 15:677-680 (1992)	
<i>DR</i>	117.	Fini M. et al. "In vitro evaluation of heparin adsorption during haemoperfusion with Dowex 1x2 anion-exchange resin" <i>Art. Cells. Blood Subs. And Immob Biotech</i> 23:1 101-108 (1995)	
<i>DR</i>	118.	Fujita and Kakishima "Photobiological activities of 5-alkoxypsoralens with respect to the action on <i>Escherichia coli</i> " <i>Photochem and Photobio.</i> 43:2 221-224 (1986)	
<i>DR</i>	119.	Goldenberg, M., et al., "Synthesis and Properties of Novel Psoralen Derivatives," <i>Biochemistry</i> 27:6971-6976 (1988).	
<i>DR</i>	120.	Goodrich R.P. et al. "Selective inactivation of viruses in the presence of human platelets: UV sensitization with psoralen derivatives" <i>Proc. Nat'l. Acad. Sci. USA</i> 91:5552-5556 (1994)	
<i>DR</i>	121.	Hanson (1992) "Photochemical Inactivation of Viruses with Psoralens: An Overview," <i>Blood Cells</i> : 18:7-25	
<i>DR</i>	122.	Hanson, C.V., et al., "Application of a Rapid Microplaque assay for Determination of Human Immunodeficiency Virus Neutralizing Antibody Titers," <i>J. Clin. Micro</i> 28:2030 (1990).	
<i>DR</i>	123.	Hass and Webb "8-methoxypsoralen effects on survival and repair of <i>Escherichica coli</i> after ultraviolet irradiation: Action spectra" <i>Radiation Research</i> 80 170-185 (1979)	
<i>DR</i>	124.	Hearst, et al., "The reaction of the psoralens with deoxyribonucleic acid", <i>Quart. Rev. Biophys.</i> 17:1-44 (1984).	
<i>DR</i>	125.	Hearst, J.E., and Thiry, L., "The photoinactivation of an RNA animal virus, vesicular stomatitis virus, with the aid of newly synthesized psoralen derivatives," <i>Nucleic Acids Research</i> , 4:1339-1347 (1977).	
<i>DR</i>	126.	Hei, D.J., et al., "Removal of cytokines from HSA-containing solutions by adsorption onto silica," <i>Biotech. Bioeng.</i> , 44:1023-1030 (1994).	
<i>DR</i>	127.	Heinmets et al. "Inactivation of viruses in plasma by photosensitized oxidation" Joint report with the Naval Medical Res. Institute, Walter Reed Army Institute of Research 53-55 pp. 1-16 (1955)	
<i>DR</i>	128.	Hilfenhaus, J., et al., "A strategy for testing established human plasma protein manufacturing procedures for their ability to inactivate or eliminate human immunodeficiency virus," <i>J. Biol. Std.</i> 15:251-263 (1987).	
<i>DR</i>	129.	Horowitz, B., et al., "Inactivation of viruses in labile blood derivatives," <i>Transfusion</i> 25:516-522 (1985).	
<i>DR</i>	130.	Hughes, R., et al. "Albumin-coated amberlite XAD-7 resin for hemoperfusion in acute liver failure Part II: In vivo evaluation.. <i>Artifical Organs</i> (1979):3(1):23-26.	

EXAMINER:

DR

DATE CONSIDERED:

5/10/02

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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Sheet 6 of 9

Form PTO-1449	Docket Number: CERUS-408.11	Application Number: 10/051,976
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant: Derek J. Hei	RECEIVED
(Use several sheets if necessary)	Filing Date: January 16, 2002	JUN 19 2002

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OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, etc.)		
<i>DR</i>	131.	Hyde and Hearst, "Binding of Psoralen Derivatives to DNA and Chromatin: Influence of the Ionic Environment on Dark Binding and Photoreactivity," <i>Biochemistry</i> 17:1251-1252 (1978).
<i>DR</i>	132.	Ibrahim, G., et al., "Application of Amerlite XAD-2 resin for general toxicological analysis," <i>J. Chrom.</i> , 108:107-116 (1975).
<i>DR</i>	133.	Isaacs, et al., "A Photochemical Characterization of Reactions of Psoralen Derivatives with DNA," <i>Trends in Photobiology (Plenum)</i> pp. 279-294 (1982).
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Docket Number: CERUS-408.11

Application Number: 10/051,976

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Applicant: Derek J. Hei

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant : Derek J. Hei	
(Use several sheets if necessary)	Filing Date : January 16, 2002	Group Art Unit: NYA

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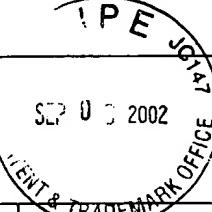
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				Applicant Derek J. HEI and George D. CIMINO			
				Filing Date: January 16, 2002		Group Art Unit 1651	
				Mailing Date August 20, 2002			
  U.S. PATENT DOCUMENTS							
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Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
<i>ar</i>	1.	02/19/2002	US 6,348,309 B1	Mohr et al.	435	2	
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
<i>gr</i>	2.	04/18/1991	6339190	Australia			
<i>ar</i>	3.	04/04/1991	WO 91/03933	WIPO			Yes
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Examiner Initials	Ref. No.	Title					
<i>ar</i>	4.	Verified English translation of PCT Application PCT/DE90/00691					
							
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